# **Common Livestock Formulas**

#### **Trait Ratio**

<u>Individual Animal</u> x 100 Average of all Animals

### 205 day Weaning Weight

205 d Wt =  $\frac{\text{actual Wt-birth W}}{\text{age in days}} \times 205 + \text{BW}$ 

adjustments for age of Dam:

Dam Age	Males (lbs)	Females (lbs)
2 yr olds	+60	+54
3 yr olds	+40	+36
4 yr olds	+20	+18
5-10 yr olds	No adjustments	
11 + yr olds	+20	+18

#### **Calculation of TDN**

TDN =

Dig. Protein (0.75)

+ Dig. N-free extract (0.90)

+ Dig. Fiber (0.50)

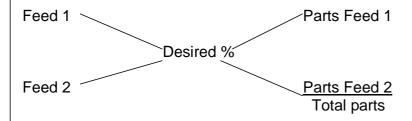
+ Dig. Ether Extract (2.25)

## **Bushel Weights and Conversions to CWT**

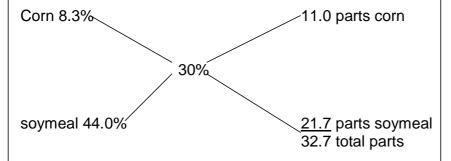
Feed	lbs/bu	bu/CWT
Barley	48	2.08
Buckwheat	48	2.08
Corn, shelled	56	1.79
Corn, ear	35	2.86
Oats	32	3.12
Rye	56	1.79
Soybeans	60	1.67
Wheat	60	1.67

## **Simple Two Feed Ration Balance**

#### **Nutrient %**



Example: want 30% protein. Use corn (8.3% protein) and soymeal (44% protein).



to find % corn and soymeal actually fed:

11.0 / 32.7 = 33.6 parts corn

21.7 / 32.7 = 66.4 parts soymeal